

Versio 5.4	on	Revision Date: 10.10.2020		S Number: 351-00016	Date of last issue: 23.03.2020 Date of first issue: 26.01.2015			
SECT	TION 1	. PRODUCT AND COM	MPA	NY IDENTIFIC	ATION			
F	Product name			: Losartan / Amlodipine Besylate Formulation				
Ν	Manufa	acturer or supplier's o	detai	ils				
C	Compa	ny	:	Organon & Co				
A	Addres	S	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302				
Т	Feleph	one	:	551-430-6000				
E	Emerge	ency telephone	:	215-631-6999				
E	E-mail	address	:	EHSSTEWAR	D@organon.com			
		mended use of the cl mended use	hem :	ical and restric Pharmaceutica				
SECT	TION 2	. HAZARDS IDENTIFI	САТ	ION				
	246 0	lassification						
		s eye damage	:	Category 1				
S	Skin se	ensitization	:	Category 1				
F	Reprod	luctive toxicity	:	Category 1B				
E	Effects	on or via lactation						
	Specific target organ toxicity - repeated exposure (Oral)		:	Category 2 (B	lood, Cardio-vascular system, Stomach, Kidney)			
G	GHS la	bel elements						
F	Hazard	pictograms	:					
S	Signal	Word	:	Danger				
ŀ	Hazard	Statements	:	H318 Causes H360D May da H362 May cau H373 May cau	ise an allergic skin reaction. serious eye damage. amage the unborn child. ise harm to breast-fed children. ise damage to organs (Blood, Cardio-vascular ach, Kidney) through prolonged or repeated rallowed.			

- Precautionary Statements
- Prevention:

:



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		P202 Do not and understo P260 Do not P263 Avoid c P264 Wash s P270 Do not P272 Contam the workplace	breathe dust. ontact during pregnancy and while nursing. kin thoroughly after handling. eat, drink or smoke when using this product. hinated work clothing should not be allowed out o e. rotective gloves/ protective clothing/ eye protec-
		P305 + P351 water for seve and easy to d CENTER/ do P308 + P313 attention. P333 + P313 vice/ attentior	IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store Ic	ocked up.
		Disposal:	e of contents/ container to an approved waste
Conta	act with dust can cau	not result in classific se mechanical irritatior air mixture during proce	
ECTION	3. COMPOSITION/I	NFORMATION ON INC	GREDIENTS
	tance / Mixture ponents	: Mixture	
Chon	nical name		CAS-No. Concentration (% w/w)

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 50 -< 70
Losartan	124750-99-8	>= 10 -< 20
Amlodipine Besylate	652969-01-2	>= 1 -< 2,5
Titanium dioxide	13463-67-7	>= 0,1 -< 1

SECTION 4. FIRST AID MEASURES

General advice	

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

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Losartan / Amlodipine Besylate Formulation

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lf	If inhaled		:	: If inhaled, remove to fresh air. Get medical attention.				
Ir	In case of skin contact		:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
Ir	In case of eye contact		:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.				
lf	If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed			:	May cause an allergic skin reaction. Causes serious eye damage. May damage the unborn child. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin.				
Protection of first-aiders			:	First Aid responde and use the recor	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).			
Ν	lotes to	o physician	:		cally and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



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SECTION	6. ACCIDENTAL RELE	AS	E MEASURES			
Personal precautions, protec- tive equipment and emer- gency procedures			Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).			
Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.			
	ods and materials for ainment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfa with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if the released into the atmosphere in sufficient concentration Local or national regulations may apply to releases and disposal of this material, as well as those materials and employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information rega certain local or national requirements.			

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the
Conditions for safe storage	environment.Keep in properly labeled containers.Store locked up.Keep tightly closed.



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Materi	als to avoid		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<u> </u>	•			
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Cellulose	9004-34-6	CMP	10 mg/m ³	AR OEL
	Further inform	ation: Irritation		
		TWA	10 mg/m ³	ACGIH
Losartan	124750-99-8	TWA	100 µg/m3 (OEB	Internal
			2)	
Amlodipine Besylate	652969-01-2	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm ²	Internal
Titanium dioxide	13463-67-7	CMP	10 mg/m ³	AR OEL
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen,
	lung			-
		TWA	10 mg/m ³	ACGIH
			(Titanium dioxide)	

Engineering measures	:	Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). If sufficient ventilation is unavailable, use with local exhaust ventilation.	
Personal protective equipme	ent		
Respiratory protection:Filter type:Hand protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
		Particulates type	
Material	:	Chemical-resistant gloves	
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.	
Eye protection	:	Wear the following personal protective equipment: Chemical resistant goggles must be worn.	



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Skin and body protection		:	If splashes are likely to occur, wear: Face-shield Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposur potential. Skin contact must be avoided by using impervious protection clothing (gloves, aprons, boots, etc). If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before re-use.		
SEC	TION 9.	PHYSICAL AND CHI	ΞΜΙΟ		5
	Appear	ance	:	powder	
	Color		:	No data available	9
	Odor		:	No data available	9
	Odor Threshold		:	No data available	9
	рН		:	No data available	9
	Melting point/freezing point		:	No data available	9
	Initial be range	piling point and boiling	:	No data available	2
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapor p	pressure	:	No data available	9
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density		:	No data available	9



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V Part octa Auto Dece Visc	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature Viscosity		a available a available a available a available
	iscosity, kinematic osive properties	: No data : Not exp	a available blosive
Mole	lizing properties ecular weight icle size	: No data	ostance or mixture is not classified as oxidizing. a available a available

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processi handling or other means. Can react with strong oxidizing agents.	ng,
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are known.	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Not classified based on availa	ble	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Expert judgment
Components:		
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg

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Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher	4 h			
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg			
Losar	rtan:						
Acute	oral toxicity	:	: LD50 (Mouse): 1.257 - 1.590 mg/kg				
			LDLo (Rat): 200) mg/kg			
			LDLo (Mouse):	400 mg/kg			
Amlo	dipine Besylate:						
Acute	oral toxicity	:	LD50 (Rat): 393	3 mg/kg			
Titani	ium dioxide:						
Acute	oral toxicity	:	LD50 (Rat): > 5	.000 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): > 6 Exposure time:				
			Test atmospher				
Not cl	corrosion/irritation lassified based on ava <u>conents:</u>	ailable	Test atmospher Assessment: Th tion toxicity				
Not cl	assified based on ava ponents:	ilable	Test atmospher Assessment: Th tion toxicity				
Not cl <u>Comp</u>	lassified based on ava <u>conents:</u> rtan: es	ilable :	Test atmospher Assessment: Th tion toxicity	ne substance or mixture has no acute inhala			
Not cl <u>Comp</u> Losar Speci Resul	lassified based on ava <u>conents:</u> rtan: es	ilable : :	Test atmospher Assessment: Th tion toxicity information.	ne substance or mixture has no acute inhala			
Not cl <u>Comp</u> Losar Speci Resul	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es	iilable : :	Test atmospher Assessment: Th tion toxicity information.	ne substance or mixture has no acute inhala			
Not cl <u>Comp</u> Losar Speci Resul Titani Speci Resul Serio	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation	ne substance or mixture has no acute inhala			
Not cl <u>Comp</u> Losar Speci Resul Titani Speci Resul Serio Cause	lassified based on ava <u>conents:</u> rtan: es It ium dioxide: es It us eye damage/eye i	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation	ne substance or mixture has no acute inhala			
Not cl <u>Comp</u> Losar Speci Resul Titani Speci Resul Serio Cause	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es It us eye damage/eye i es serious eye damag <u>conents:</u>	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation	ne substance or mixture has no acute inhala			
Not cl Comp Losar Specia Resul Titani Specia Resul Serio Cause Comp	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es it us eye damage/eye it es serious eye damage <u>conents:</u> rtan: es	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation	ne substance or mixture has no acute inhala- on			
Not cl <u>Comp</u> Specia Resul Titani Specia Resul Serio Cause <u>Comp</u> Losar Specia Resul	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es it us eye damage/eye i es serious eye damag <u>conents:</u> rtan: es it	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation on Rabbit	ne substance or mixture has no acute inhala- on			
Not cl <u>Comp</u> Specia Resul Titani Specia Resul Serio Cause <u>Comp</u> Losar Specia Resul	lassified based on ava <u>conents:</u> rtan: es it ium dioxide: es it us eye damage/eye i es serious eye damage <u>conents:</u> rtan: es it dipine Besylate: es	: : : irritati	Test atmospher Assessment: Th tion toxicity information. Rabbit Mild skin irritation Rabbit No skin irritation on Rabbit	ne substance or mixture has no acute inhala- on n			



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Titani	um dioxide:		
Speci	es	: Rabbit	
Resul		: No eye irrita	tion
rtoour	L .		
Respi	iratory or skin sens	itization	
Skin s	sensitization		
•	ause an allergic skin		
Respi	iratory sensitizatior	1	
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
Losar			
Test T		: Maximization	
	s of exposure	: Skin contact	
Speci		: Guinea pig	r ovidence of okin constituation in humans
Asses Resul	sment	: Probability o : positive	r evidence of skin sensitization in humans
Resul	L	. positive	
Titani	um dioxide:		
Test T	Гуре	: Local lymph	node assay (LLNA)
Route	s of exposure	: Skin contact	
	~~	. Maura	
Speci		: Mouse	
Specie Resul		: negative	
Resul	t		
Resul		: negative	
Resul Germ Not cl	t cell mutagenicity	: negative	
Resul Germ Not cl	t cell mutagenicity assified based on av ponents:	: negative	
Result Germ Not cl Comp Cellul	t cell mutagenicity assified based on av ponents:	: negative ailable information. : Test Type: B	Bacterial reverse mutation assay (AMES)
Result Germ Not cl Comp Cellul	t cell mutagenicity assified based on av ponents: lose:	: negative ailable information.	
Result Germ Not cl Comp Cellul	t cell mutagenicity assified based on av ponents: lose:	: negative ailable information. : Test Type: E Result: nega	tive n vitro mammalian cell gene mutation test
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	: negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega	itive n vitro mammalian cell gene mutation test itive
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av ponents: lose:	: negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega	itive n vitro mammalian cell gene mutation test itive /Iammalian erythrocyte micronucleus test (in viv
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	: negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega : Test Type: N cytogenetic a Species: Mo	itive n vitro mammalian cell gene mutation test tive Aammalian erythrocyte micronucleus test (in viv assay) use
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 negative ailable information. Test Type: E Result: nega Test Type: In Result: nega Test Type: N cytogenetic a Species: Mo Application F 	n vitro mammalian cell gene mutation test tive Aammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	: negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega : Test Type: N cytogenetic a Species: Mo	itive n vitro mammalian cell gene mutation test itive Aammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 negative ailable information. Test Type: E Result: nega Test Type: In Result: nega Test Type: N cytogenetic a Species: Mo Application F 	n vitro mammalian cell gene mutation test tive Aammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 : negative : negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega : Test Type: N cytogenetic a Species: Mo Application F Result: nega 	n vitro mammalian cell gene mutation test titive Mammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion titive
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 : negative : negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega : Test Type: N cytogenetic a Species: Mo Application F Result: nega : Test Type: ir 	n vitro mammalian cell gene mutation test tive Mammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion tive
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 : negative : negative ailable information. : Test Type: E Result: nega Test Type: Ir Result: nega : Test Type: N cytogenetic a Species: Mo Application F Result: nega 	n vitro mammalian cell gene mutation test titve Mammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion titve
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 inegative inegative ailable information. Test Type: E Result: nega Test Type: In Result: nega Test Type: N cytogenetic a Species: Mo Application F Result: nega Test Type: ir Result: nega 	n vitro mammalian cell gene mutation test tive Mammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion tive
Result Germ Not cl Comp Cellul Genot	t cell mutagenicity assified based on av <u>ponents:</u> lose: toxicity in vitro	 inegative inegative ailable information. Test Type: E Result: nega Test Type: In Result: nega Test Type: N cytogenetic a Species: Mo Application F Result: nega Test Type: in Result: nega Test Type: In 	n vitro mammalian cell gene mutation test titve Mammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion titve



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		Test Type: Alkaline elution assay Result: negative	
		Test Type: Chromosomal aberration Result: negative	
Geno	toxicity in vivo	: Test Type: Chromosomal aberration Result: negative	
Amlo	dipine Besylate:		
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AM Result: negative	1ES)
		Test Type: Chromosome aberration test in vitro Result: negative	
Titani	ium dioxide:		
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AM Result: negative	1ES)
Genotoxicity in vivo		: Test Type: In vivo micronucleus test Species: Mouse Result: negative	
Carci	nogenicity		
	nogenicity assified based on av	ailable information.	
Not cl		ailable information.	
Not cl	assified based on av	ailable information.	
Not cl <u>Comp</u> Cellul Speci	assified based on av ponents: lose: es	: Rat	
Not cl <u>Comp</u> Cellul Speci Applic	assified based on av <u>conents:</u> lose: es cation Route	: Rat : Ingestion	
Not cl <u>Comp</u> Cellul Speci Applic	assified based on av <u>conents:</u> lose: es cation Route sure time	: Rat	
Not cl Comp Cellul Speci Applic Expos	assified based on av <u>conents:</u> lose: es cation Route sure time t	: Rat : Ingestion : 72 weeks	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es	: Rat : Ingestion : 72 weeks	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route	 Rat Ingestion 72 weeks negative : Mouse Oral 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic Expos	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time	 Rat Ingestion 72 weeks negative : Mouse Oral 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic Expos Dose	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t t	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t es cation Route sure time	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 	
Not cl Comp Cellul Specia Applic Expos Resul Losar Specia Applic Expos Dose Resul Specia Applic Expos Dose Resul	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t t es	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 105 weeks 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic Expos Dose Resul Speci Applic Expos Dose Resul	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t es cation Route sure time t	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 	
Not cl Comp Cellul Specia Applic Expos Resul Specia Applic Expos Dose Resul Specia Applic Expos Dose Resul	assified based on av <u>conents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t es cation Route sure time t	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 105 weeks 270 mg/kg body weight 	
Not cl Comp Cellul Speci Applic Expos Resul Losar Speci Applic Expos Dose Resul Speci Applic Expos Resul	assified based on av <u>ponents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t es cation Route sure time t dipine Besylate:	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 105 weeks 270 mg/kg body weight negative 	
Not cl Comp Cellul Specia Applica Expose Resul Applica Expose Resul Applica Expose Resul Applica Expose Resul Applica Expose Resul Applica Expose Resul Applica Expose Resul Applica Expose Resul Amlo	assified based on av <u>ponents:</u> lose: es cation Route sure time t rtan: es cation Route sure time t es cation Route sure time t dipine Besylate:	 Rat Ingestion 72 weeks negative Mouse Oral 92 weeks 200 mg/kg body weight negative Rat Oral 105 weeks 270 mg/kg body weight 	



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	Result		:	negative	
		s ition Route ire time	:	Rat Oral 2 Years negative	
	Titaniu Specie:	i m dioxide: s	:	Rat	
	Applica	ition Route ire time	:	inhalation (dust/m 2 Years OECD Test Guide positive	
	Remark	ks	:		r mode of action may not be relevant in hu-
	Carcino ment	ogenicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
	May da May ca	ductive toxicity mage the unborn child use harm to breast-fec		ldren.	
		onents:			
	Cellulo Effects	on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects	on fetal development	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
	Losart	an:			
	Effects	on fertility	:	Result: female rep	ale : Oral 200 mg/kg body weight
	Effects	on fetal development	:	Developmental To Result: Embryoto	: Oral Maternal: NOAEL: 10 mg/kg body weight oxicity: NOAEL F1: 20 mg/kg body weight kic effects and adverse effects on the tected only at high maternally toxic doses,



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•	Reproductive toxicity - As- sessment		Clear evidence of animal experimen	adverse effects on development, based on ts.
			Studies indicating period	a hazard to babies during the lactation
Aml	odipine Besylate:			
	cts on fertility	:	Species: Rat Application Route	10 mg/kg body weight
			Species: Rabbit Application Route	25 mg/kg body weight
Effec	cts on fetal development	:	Species: Rat Application Route Developmental To	ro-fetal development : Ingestion oxicity: LOAEL: 10 mg/kg body weight fetal development.
			Species: Rabbit Application Route Developmental To	ro-fetal development : Ingestion pxicity: NOAEL: 10 mg/kg body weight o on fetal development.
			Species: Mouse Application Route Developmental To Result: Effects on	ro-fetal development : Ingestion oxicity: LOAEL: 1,6 mg/kg body weight fetal development. al toxicity observed.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Blood, Cardio-vascular system, Stomach, Kidney) through prolonged or repeated exposure if swallowed.



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<u>Comp</u>	oonents:		
Losar	tan.		
		Incration	
	s of exposure	: Ingestion	agular ayatam Stamagh Kidnay
	t Organs ssment		iscular system, Stomach, Kidney age to organs through prolonged or repeat
ASSES	Silleni	exposure.	age to organs through protonged of repeat
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Cellul	lose:		
Speci		: Rat	
NOAE		: >= 9.000 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 90 Days	
Losar	tan:		
Speci	es	: Rat	
LOAE		: 15 mg/kg	
	ation Route	: Oral	
	sure time	: 309 d	
	er of exposures	: daily	
Targe	t Organs	: Blood, Kidney, C	ardio-vascular system, Stomach
Speci		: Dog	
NOAE		: 5 mg/kg	
	ation Route	: Oral	
	sure time	: 1 Months	
Symp	toms	: Salivation, Vomi	ing
Speci		: Dog	
LOAE		: 25 mg/kg	
	ation Route	: Oral	
	sure time	: 53 Weeks	
	er of exposures	: daily	in a
Symp	IOINS	: Salivation, Vomi	ing
	dipine Besylate:		
Speci		: Rat	
NOAE		: 15 mg/kg	
	ation Route	: Oral	
•	sure time	: 90 d	<i>и</i> .
Rema	rks	: No significant ac	verse effects were reported
Titani	um dioxide:		
Speci	es	: Rat	
NOAE	EL	: 24.000 mg/kg	
Applic	ation Route	: Ingestion	
	sure time	: 28 Days	



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		: Rat : 10 mg/m ³ : inhalation (de : 2 y	ust/mist/fume)
-	iration toxicity classified based on ava	ilable information.	
<u>Con</u>	nponents:		
	artan: aspiration toxicity classif	ication	
Exp	erience with human ex	posure	
<u>Con</u>	nponents:		
Los	artan:		
	contact stion	: Symptoms: E : Symptoms: h	Eye irritation lypotension, tachycardia
Aml	odipine Besylate:		
	contact stion		Severe irritation Jausea, Abdominal pain, Fatigue, Headache, itation
SECTION	N 12. ECOLOGICAL IN	FORMATION	
Eco	toxicity		
<u>Con</u>	nponents:		
Cell	ulose:		
Тохі	city to fish	Exposure tim	as latipes (Japanese medaka)): > 100 mg/l ne: 48 h used on data from similar materials

		Exposure time: 48 h Remarks: Based on data from similar materials
Losartan:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 929 mg/l Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 331 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Microcystis aeruginosa (blue-green algae)): 949 mg/l Exposure time: 10 d Method: FDA 4.01
		NOEC (Selenastrum capricornutum (green algae)): 143 mg/l Exposure time: 10 d Method: FDA 4.01



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Toxic icity)	Toxicity to fish (Chronic tox- icity)		: NOEC (Pimephales promelas (fathead minnow)): Exposure time: 32 d Method: OECD Test Guideline 210		
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		NOEC (Daphnia magna (Water flea)): 100 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
Amlo	dipine Besylate:				
Toxic	ity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 2,7 mg/l S h	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 3,2 mg/l 3 h	
Toxic plants	ity to algae/aquatic	:	IC50 (Pseudokirchneriella subcapitata (green algae)): 5 Exposure time: 72 h Method: OECD Test Guideline 201		
Titan	ium dioxide:				
Toxic	ity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 Exposure time: 96 h Method: OECD Test Guideline 203		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h		
Toxic plants	ity to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10.000 m 2 h	
Toxic	ity to microorganisms	:	: EC50: > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Persi	stence and degradabil	ity			
<u>Com</u>	oonents:				
Cellu	lose:				
Biode	gradability	:	Result: Readily bi	odegradable.	
Losa	rtan:				
Stabil	ity in water	:	Hydrolysis: < 10 %	%(5 d)	
Bioad	cumulative potential				
<u>Com</u>	oonents:				
	rtan: ion coefficient: n- ol/water	:	log Pow: 1,2		
Amlo	dipine Besylate:				
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Partition coefficient: n- octanol/water		: log Pow: 3		
Mobility in soil No data available				
	r adverse effects ata available			
SECTION 13. DISPOSAL CONSIDERATIONS				

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Argentina. Carcinogenic Substances and Agents : Not applicable Registry.

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

International Regulations

The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined

IECSC : not determined



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SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD				
compile the Material Safety	eChem Portal search results and European Chemicals Agen-				
Data Sheet	cy, http://echa.europa.eu/				
Full text of other abbreviations					

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average TLV (Threshold Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific



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context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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